

NHSBT PAEDIATRIC COMPONENTS SPECIFICATION AND AVAILABILITY

**PRESENTED BY BERNARD MORRIS
PROCESSING MANAGER
NHSBT SHEFFIELD**

- PROCESSING
- DONOR SELECTION
- SPECIFICATIONS
- AVAILABILITY

Aliquots



DONOR SELECTION

- *At least 1 previous donation within last 2 years*
- *negative for all mandatory microbiological markers*
- *male donors*

RED CELLS FOR EXCHANGE

- *Group O or ABO compatible*
- *K negative*
- *Volume 180 - 420 mls*
- *Plasma reduced CPD (Hct 0.50 – 0.55)*
- *No clinically significant antibodies and HT neg*
- *Less than 5 days old*
- *CMV antibody negative*
- *HbS screen negative*
- *Irradiated and use within 24 hours*

RED CELLS FOR IUT

- *Group O or ABO identical to foetus*
- *Negative for relevant antigens*
- *K negative*
- *CPD not SAG-M*
- *No clinically significant antibodies and HT neg*
- *CMV antibody negative*
- *HbS screen negative*
- *Irradiated and use within 24 hours*
- *Secondary processed exchange units (Hct 0.70 – 0.85)*
- *Volume 150 – 300 mls*

RED CELLS IN SAG-M FOR LARGE VOLUME TRANSFUSION

- *ABO and RhD compatible with the neonate*
- *K Negative*
- *In SAG-M*
- *No clinically significant antibodies and HT neg*
- *CMV Negative*
- *HbS Negative*
- *Volume 220 – 340 mls*

NEONATAL TOP-UP UNITS

- *In SAG-M*
- *Up to 35 day expiry*
- *6 aliquots available*
- *10-20 ml/Kg*
- *Volume 30 – 70 mls*
- *Hct 0.5 – 0.7*
- *Specification as per LVT*

PLATELETS FOR NEONATES

- *No clinically significant antibodies and HT neg*
- *CMV negative*
- *4 aliquots available*
- *60 -70 x 10⁹ platelets*
- *Volume 30 – 120 mls*
- *HPA -1a and -5b*
- *Bacteriologically screened*

Platelets for IUT

- *Hyperconcentrated*
- *Volume 50 – 100 mls*
- *Platelet conc 2000 – 4000 x10⁹ / litre*
- *HPA compatible (HPA 1a 5b negative)*
- *HT negative*
- *CMV negative*
- *Irradiated and use within 24 hours*

FFP for neonates and paediatric

- *Imported plasma*
- *Methylene blue treated and removed*
- *Pathogen inactivated*
- *NOT HT negative*
- *50 ml or 200 ml aliquots available*
- *FV111 > 50 IU/ml*
- *Low titre anti-T FFP (UK sourced)*

Cryoprecipitate for neonates and paediatric

- *Imported plasma*
- *Methylene blue treated and removed*
- *Pathogen inactivated*
- *Single units*
- *FV111 => 50 IU/ml*
- *Fibrinogen => 140 mg/unit*
- *Volume 20 – 60 mls*
- *NOT HT negative*

Pooled Cryoprecipitate

- *Available from 1st April 2014*
- *Imported plasma*
- *Methylene blue treated and removed*
- *Pathogen inactivated*
- *Pool of 6 single MB cryo*
- *Volume 100 – 320 ml*
- *FV111 =>250 IU/ml*
- *Fibrinogen => 700 mg/unit*
- *NOT HT negative*

STOCK AVAILABILITY

- *Red cell splits - group O held as stock item
(and group A in some centres)*
- *Exchange units - limited stock item
(group O negative and O R1R1)*
- *LVTs - stock item*
- *Platelet splits- stock item*
- *Frozen products – stock item*

OTHER AVAILABILITY

- *IUT – 24 hours notice for planned procedures
urgent requests 4 hours notice (6 hours
notice outside normal working hours)*
- *Platelets for IUT – special order only
7 days notice required*